



# 1998 Toxics Release Inventory

# IOWA

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	30,975,808	12,682,895	43,658,703
Air Emissions	25,575,473	8,720,416	34,295,889
Surface Water Discharges	3,118,336	14,967	3,133,303
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	336,491	0	336,491
Other On-site Land Releases	1,945,508	3,947,512	5,893,020
Off-site Releases (Transfers Off-site to Disposal)*	4,319,410	1,040,956	5,360,366
<b>Total On- and Off-site Releases</b>	<b>35,295,218</b>	<b>13,723,851</b>	<b>49,019,069</b>
Recycled On-site	187,987,387	59,264	188,046,651
Recycled Off-site	51,296,173	520,254	51,816,427
Energy Recovery On-site	1,302,522	0	1,302,522
Energy Recovery Off-site	3,698,314	71,671	3,769,985
Treated On-site	44,900,575	210,104	45,110,679
Treated Off-site**	11,046,771	4,624	11,051,395
Quantity Released On- and Off-site***	38,189,865	12,903,136	51,093,001
<b>Total Production-related Waste Managed</b>	<b>338,421,607</b>	<b>13,769,053</b>	<b>352,190,660</b>
<b>Total Non-production-related Waste Managed</b>	<b>1,232,058</b>	<b>136,526</b>	<b>1,368,584</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	50,624,824	520,284	51,145,108
Energy Recovery	3,543,780	70,367	3,614,147
Treatment	4,557,151	2,042	4,559,193
Publicly Owned Treatment Works (POTWs)	6,945,081	0	6,945,081
Metals and Metal Compounds*	256,579	0	256,579
Non-metal TRI Chemicals**	6,688,502	0	6,688,502
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	8,868,607	1,040,956	9,909,563
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>74,539,443</b>	<b>1,633,649</b>	<b>76,173,092</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\*Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

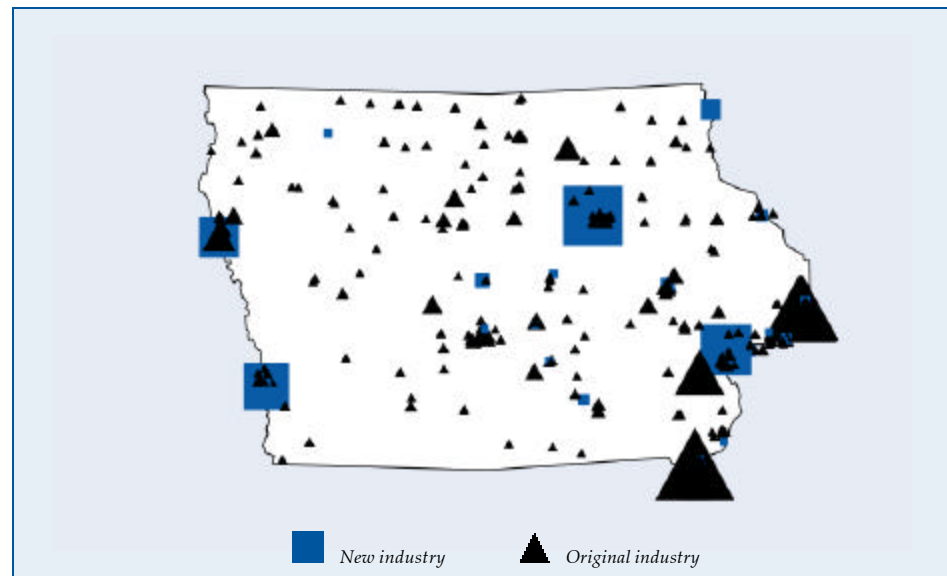
Susan Dixon  
(515) 242-6346  
Fax: (515) 281-8895

### EPA Regional Contact:

Stephen Wurtz  
(913) 551-7315  
Fax: (913) 551-7065

### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Iowa. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data†

Population	2,862,447
Square Miles	55,875
Total Facilities	442
Total Forms	1,433
Form As	217

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	24	33	30
Pounds	35,295,218	13,723,851	49,019,069
<b>National Rank for Total On-site Releases**</b>			
Rank	23	33	30
Pounds	30,975,808	12,682,895	43,658,703
<b>National Rank for Total Releases within State***</b>			
Rank	25	33	30
Pounds	32,390,095	13,714,518	46,104,613
<b>National Rank for Production-related Waste Managed</b>			
Rank	23	41	27
Pounds	338,421,607	13,769,053	352,190,660

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.

†One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It reported 1.3 million pounds released on-site and total production-related waste managed. Adding this facility to Iowa totals changes the national rank for total on-site releases for new industries from 33 to 32 and for production-related waste managed for new industries from 41 to 40.



# 1998 Toxics Release Inventory

## IOWA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,810,792	193,165	0	1,750	129,781	6,135,488	16,578	129,461	320
110-54-3	n-Hexane	4,681,695	382	0	0	0	4,682,077	0	0	0
—	Zinc compounds	96,513	2,425	0	194,394	4,353,701	4,647,033	30,703	174,898	4,179,053
—	Nitrate compounds	26,255	2,879,420	0	1,074	5,400	2,912,149	0	0	5,400
74-85-1	Ethylene	2,161,600	0	0	0	0	2,161,600	0	0	0
1330-20-7	Xylene (mixed isomers)	1,945,248	250	0	1,702	6,222	1,953,422	8	273	6,199
7439-96-5	Manganese	36,776	257	0	1,449,916	398,988	1,885,937	0	54,875	344,113
108-88-3	Toluene	1,799,172	2,100	0	0	5,564	1,806,836	10	0	5,564
—	Manganese compounds	8,889	1,313	0	0	1,427,544	1,437,746	0	320,709	1,106,835
75-09-2	Dichloromethane	1,156,395	0	0	5	500	1,156,900	0	250	250

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	4,554,548	0	0	0	0	4,554,548	0	0	0
—	Barium compounds	32,675	501	0	2,744,915	517,213	3,295,304	31,876	517,213	0
7664-93-9	Sulfuric acid	2,972,975	0	0	0	0	2,972,975	0	0	0
7664-39-3	Hydrogen fluoride	734,529	0	0	0	0	734,529	0	0	0
—	Manganese compounds	7,990	755	0	494,767	55,114	558,626	0	55,114	0
7440-39-3	Barium	11,521	0	0	0	365,182	376,703	0	322,000	43,182
7697-37-2	Nitric acid	357,036	0	0	0	0	357,036	0	0	0
—	Nickel compounds	3,882	817	0	98,100	52,800	155,599	0	52,800	0
—	Zinc compounds	1,646	2,683	0	129,411	6,321	140,061	5,470	6,321	0
—	Copper compounds	1,269	750	0	122,500	4,300	128,819	0	4,300	0

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

# IOWA

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Climax Molybdenum Co., Fort Madison, Lee	3,251,735	4,842	0	0	0	650	3,257,227	0	0
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	3,056,658	0	0	0	0	0	3,056,658	0	0
IBP Inc., Columbus Junction, Louisa	1,020	1,900,500	0	0	0	250	1,901,770	18,800	0
Griffin Wheel Co., Keokuk Plant, Keokuk, Lee	36,400	0	0	0	0	1,105,200	1,141,600	4,679	78,770
Terra Nitrogen, Sergeant Bluff, Woodbury	976,520	73,605	0	0	0	510	1,050,635	0	14,000
ADM Corn Processing, Clinton, Clinton	1,015,403	3,273	0	0	0	0	1,018,676	173,558	0
PCS Nitrogen Fertilizer L.P., Clinton Plant, Camanche, Clinton	679,989	187,249	0	0	0	0	867,238	0	0
Salsbury Chemicals Inc., Charles City, Floyd	531,670	283,432	0	0	0	0	815,102	0	289,014
Future Foam Inc., Council Bluffs, Pottawattamie	730,500	0	0	0	0	0	730,500	0	0
ADM Soybean Processing, Des Moines, Polk	609,000	0	0	0	0	0	609,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)<sup>†</sup>

Facility, City, County	On-site Releases						Total On-site Releases * Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Cedar Falls Utilities, Cedar Falls, Black Hawk	3,028,141	0	0	0	0	0	3,028,141	0	0
Louisa Generating Station, Muscatine, Muscatine	1,386,290	3,105	0	0	0	1,149,700	2,539,095	15	0
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	702,390	1,250	0	0	0	1,564,000	2,267,640	15	15
George Neal North, Sioux City, Woodbury	718,535	1,755	0	0	0	1,177,900	1,898,190	15	0
Lansing Power Station, Lansing, Allamakee	726,591	1	0	0	0	0	726,592	0	45,581
City of Ames Power Plant, Ames, Story	376,585	0	0	0	0	34,000	410,585	0	0
Sixth Street Generating Station, Cedar Rapids, Linn	339,105	0	0	0	0	0	339,105	30,000	0
Fair Station, Montpelier, Muscatine	244,760	0	0	0	0	0	244,760	0	0
Dubuque Power Plant, Dubuque, Dubuque	231,494	0	0	0	0	0	231,494	7,713	0
Ottumwa Generating Station, Ottumwa, Wapello	201,670	0	0	0	0	0	201,670	114,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

<sup>†</sup>One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It ranks fifth with 1,311,745 pounds of total on-site releases.



# 1998 Toxics Release Inventory

## IOWA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Ipsco Steel Inc., Muscatine, Muscatine	0	0	0	0	0	0	4,596,737	4,596,737	6
Climax Molybdenum Co., Fort Madison, Lee	150,000	0	0	0	500,000	0	3,256,578	3,906,578	0
Equistar Chemicals L.P. Clinton Plant, Clinton, Clinton	0	0	0	833,530	7,794,300	30,901	1,911,586	10,570,317	1,180,316
IBP Inc., Columbus Junction, Louisa	0	15,000	0	0	331,000	0	1,911,030	2,257,030	4
Griffin Wheel Co., Keokuk Plant, Keokuk, Lee	0	0	0	0	0	0	1,224,969	1,224,969	0
ADM Corn Processing, Clinton, Clinton	0	0	0	0	132,600	0	1,116,909	1,249,509	0
Terra Nitrogen, Sergeant Bluff, Woodbury	0	0	0	0	0	0	1,056,040	1,056,040	2,100
Salsbury Chemicals Inc., Charles City, Floyd	2,055,000	0	0	0	1,511,400	1,113,550	1,038,135	5,718,085	0
North Star Recycling, Wiltonjunction, Muscatine	0	0	0	0	0	0	941,017	941,017	0
PCS Nitrogen Fertilizer L.P., Clinton Plant, Camanche, Clinton	0	0	0	0	0	0	882,828	882,828	458

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)<sup>†</sup>

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Louisa Generating Station, Muscatine, Muscatine	0	0	0	0	0	0	2,541,000	2,541,000	0
Cedar Falls Utilities, Cedar Falls, Black Hawk	0	0	0	0	0	0	2,265,402	2,265,402	0
Council Bluffs Energy Center, Council Bluffs, Pottawattamie	0	0	0	0	0	0	2,264,000	2,264,000	0
George Neal North, Sioux City, Woodbury	0	0	0	0	0	0	1,895,000	1,895,000	0
Lansing Power Station, Lansing, Allamakee	0	0	0	0	103	0	772,173	772,276	1
Alliant Energy M L Kapp Generating Station, Clinton, Clinton	0	0	0	0	0	0	452,700	452,700	0
City of Ames Power Plant, Ames, Story	0	0	0	0	0	0	376,590	376,590	3
Sixth Street Generating Station, Cedar Rapids, Linn	0	0	0	0	0	0	370,000	370,000	2
Riverside Generating Station, Bettendorf, Scott	0	0	0	0	0	0	322,000	322,000	0
Ottumwa Generating Station, Ottumwa, Wapello	0	0	0	0	0	0	314,300	314,300	11

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

<sup>†</sup>One facility, George Neal South in Sioux City, Iowa was incorrectly located in Minnesota. It ranks fifth with 1,318,000 pounds of quantity released on- and off-site.